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INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(51) International Patent Classification ⁵: C12N 15/09, 15/13, 15/33	A1	(11) International Publication Number: WO 94/24278 (43) International Publication Date: 27 October 1994 (27.10.94)
(21) International Application Number: PCT/US93/03408 (22) International Filing Date: 9 April 1993 (09.04.93) (71) Applicant: CATALYTIC ANTIBODIES [US/US]; Suite 100, 3030 Hansen Way, Palo Alto, CA 94304 (US). (71)(72) Applicants and Inventors: DAVIS, Claude, Geoffrey [US/US]; 10 Mercato Court, San Francisco, CA 94131 (US). FABIAN, Gary, Robert [US/US]; 1163 Ruby Street, Redwood City, CA 94061 (US). (74) Agent: DEHLINGER, Peter, J.; Law Offices of Peter J. Dehlinger, P.O. Box 60850, Palo Alto, CA 94306-0850 (US).		(81) Designated States: CA, JP, European patent (AT, BE, CH, DE, DK, ES, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE). Published <i>With international search report.</i>
(54) Title: SELECTING GENES ENCODING CATALYTIC ANTIBODIES (57) Abstract The present invention describes methods of screening for or selecting a catalytic antibody effective to cleave a target peptide. In particular, in the selection method of the present invention a phage gene is selected that encodes a gene product necessary for the production of a phage. The phage, carrying the modified gene is introduced into a host. Also, a library of rearranged immunoglobulin genes in a cloning vector is introduced into host cells. The host cells are grown under conditions in which the immunoglobulin genes are expressed in the host cells. The presence of antibodies capable of cleaving the target peptide is identified on the basis of production of phage.		